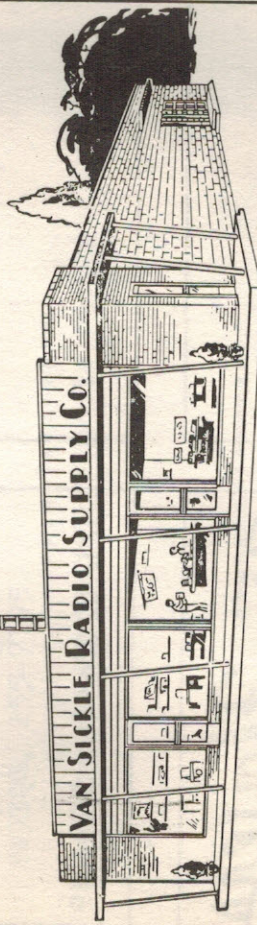


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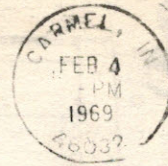
Ma cheswren

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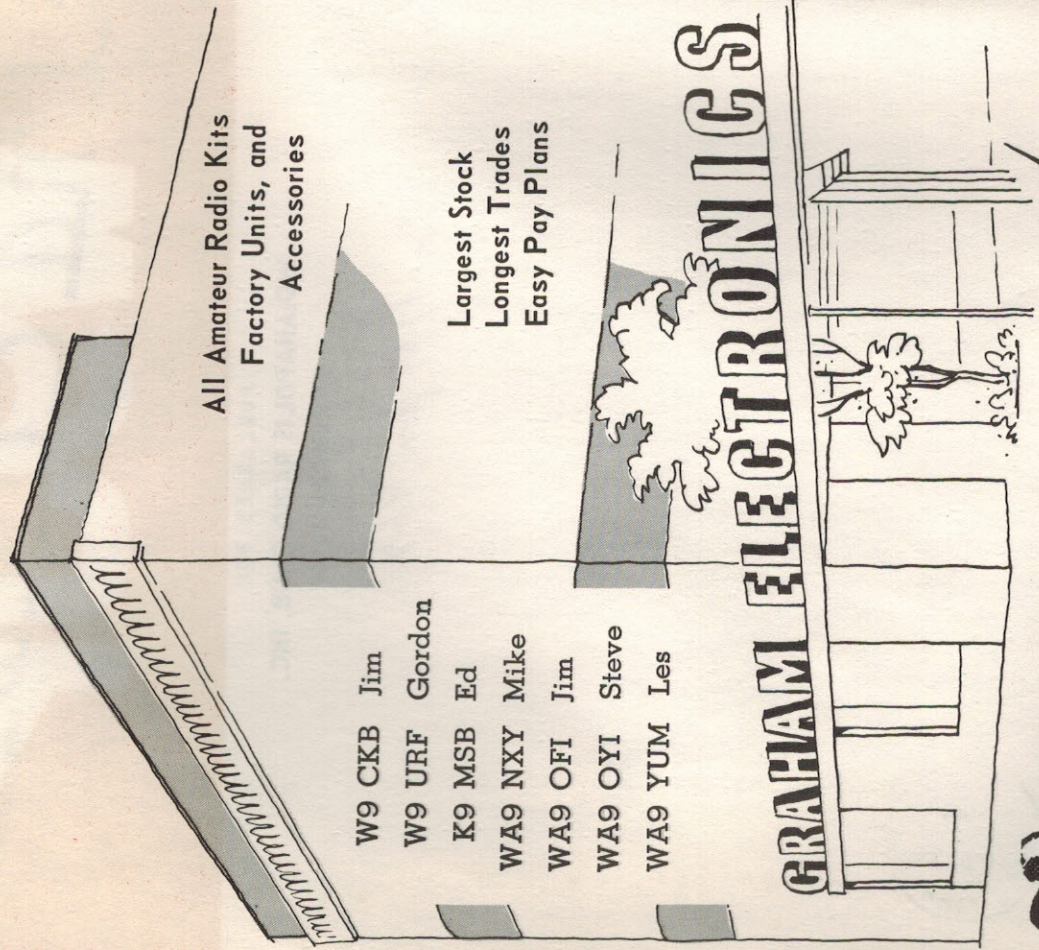
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AMA-CHEWER

Holiday Issue- December 1968 and January 1969
Ama-Chewer is published monthly by and for the members of the Indianapolis Radio Club, and all amateurs in the Indianapolis area. The publication is mailed to all members and subscribers. Non-members may subscribe for \$1.50 per year.

The Indianapolis Radio Club meets on the second and fourth Friday nights of each month except July and August, in the Indianapolis Park Board Bldg. at 29th and Harding Sts. Guests are welcome, and only an interest in amateur radio is necessary to attend. Meetings start promptly at 8:00 P.M. E.S.T.

Club Officers

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V. Pres. Louie Linthecomb K9EAT
2946 Baltimore 926-0588

Sec. Paul Beckerich W9SUN
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Dir. Garold Bramblett W9POF
53 N. Bolton Ave. 359-8005

Editor Jerry Lucas W9BS
7830 Melbourne Rd. New Augusta 291-0372

Permission is granted to reprint any part of Ama-Chewer, provided credit is given. News from other clubs is welcome, and will be printed, if received before the first Friday of the month.

The Editor's Frequency

Yeah, I know I'm late again, really late this time, and I don't even have the excuse of no contributions. For the first time since I assumed the job as editor, I had a number of contributions, and really have no good excuse for the tardiness. Oh, press of business, other obligations, general lethargy, and pure cussed laziness could account for it I guess.

Don't let my laziness infect you though, keep those cards and letters coming, and I will promise to do better in the future.

de W9BS

Harry Butler, W9OVF, is the latest addition to ranks of Extra Class licensees. He passed the exam during the last visit of the RI, and has already received his ticket. He has applied for the large certificate, and is seriously considering applying for a two letter call. Congratulations, Harry.

Gary Hughes, K9LMX, received a letter from the Indianapolis Area Chapter of the Red Cross, thanking the club for the loan of the Communicator III during the past summer. The "Gooney Box" is now available for use by the members. See or call Gary.

Bob Caskey, W9DNQ, also received a letter from Winston Churchill, Chief of Police thanking the club for assistance during the "500" parade.

Program Preview

The new officers are hot on the trail of a number of good programs, but I have no definite dates at this time. By the time the next issue goes to press, I hope to have the full scoop on a number of ones that you won't want to miss.

Program Review

Nov., 8th Dick Judkins presented another fine program on integrated circuits. Dick started his talk by stressing the high quality of the components used in making integrated circuits, and the low prices of the finished products. He explained how the ICs are made by mass production methods thereby making possible the low prices, and how the active elements are much easier to produce than the passive elements. Consequently ICs use transistors to do the work of resistors making IC design entirely different from discrete component circuitry design.

Dick demonstrated a $\frac{1}{2}$ watt audio amp. that could be put in a match box and yet would drive an 8" spkr. to almost full volume. He also showed an amp. with a gain of exactly 10 good from DC to 8-10 mcs. that could be used as a video amp. or a scope pre-amp. An electronic keyer built by W9BS, and a voltmeter with a 10 meg. input Σ , $1/10\%$ linearity, and a 100mv. scale, were used to demonstrate the versatility of ICs.

Dick ended his talk by warning against reversing the power supply, testing with an ohm-meter, exceeding voltage ratings or input ratings, and advised that disconnecting the soldering iron or grounding it was an excellent precaution when working with ICs.

By the way, Dick advised me that the 7.5 volt figure given on page 8 in the last issue should be not more than 5 volts for silicon transistors.

What is 6 Meter FM in Indianapolis

About 2 years ago Hank K9LZJ let me use a very much modified link 6 meter (52.525) FM receiver and a motorola base transmitter he had put together. Although I did not operate much I listened quite a bit and talked to a few of the more frequent friendly operators.

Later I had a chance to buy a Motorola

T-51GGV mobile unit with private line feature and began converting it from 48.64 to 52.525 FM etc. they told me they could put it on freq. if I got it too fouled up so I slowly began by ordering the proper crystals etc.

With a Simpson 260 and a few motorola diagrams that were not for my exact unit I proceeded and found that a few simple adjustments of the receiver Osc and I was able to hear on the channel. Later I did modify the L1 coil of the receiver and now all slugs peak in the receiver section. Modifying the transmitter was easy with only the driver T3 coupling requiring about 2 turns off each section. Then all tuning of transmitter coils peaked at the new frequency. Hank gave me a good tip about listening to the second harmonic of the transmitter on an FM portable or other receiver 52.525 x 2 equals 105.05 so tune 105 on your FM car or other receiver and there you are.

(This is nice to use to be sure your still on the air - some times you just cant get anyone.) Also before converting a unit test all tubes, and try the unit on the old frequency first it probably will work, (mine did) then knowing it works it is much easier to bring it up to the new frequency. After much studying I finally decided to try and mount the unit in the car. A special 3/4" plywood deck was made across the trunk and the spare tire remounted, this actually give me more trunk space and provides a solid mounting for the motorola case which is shock mounted to the plywood deck. The cables to the control head & power cables were run

under the back seat and under the floor mats up to the control head. The power lines and one line from the control head - on-off relay line. were put through a 1-1/4" dia hole that General Motors had put a rubber plug in under the right side of the rear seat. The power lines and one control line were put inside of 3/8" I.D. air hose that was slit and retaped with all lines water proof. This saved running lines thru the firewall which is easy on some cars but on one with factory air cond. the extra insulation and equipment it was much easier this way and no holes were required. In fact the whole installation required only 3 or 4 small sheet metal screws and holes for the trunk groove mounted antenna specialists base loaded whip.

On a recent trip to Florida via Gatlinburg, and Macon Ga. we did not contact anyone of 6 FM until we talked to WB4DZM Sam at Hialeah, Fla. then Dave Hick WA4VTJ (previously from Indpls) at Ft. Lauderdale. Everyone has heard WA4VTJ when the skip was good. (high power and a good antenna cant be beat.) Our next contact was WA4HDJ Larry in Tampa, Fla. Larry was the only one on in the Tampa St. Pete area but advised there was more activity on 2 FM, even though 30 or more had 6 FM gear they did not operate or monitor regularly. We did not hear anyone else until crossing in to Indiana from Louisville where we contacted one mobile and later a Base station at Lanesville when we gave a general call for "any base station" and Barbara answered our call and help us assist a stranded motorist on I-65 20 mi. so of Seymour. We later found the State Police do not patrol the north bound area in this particular section very much and thus proves that amateur radio can be of service to the community as well as for your personal pleasure.

73's Bob w9PSE

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WRITING CONTEST

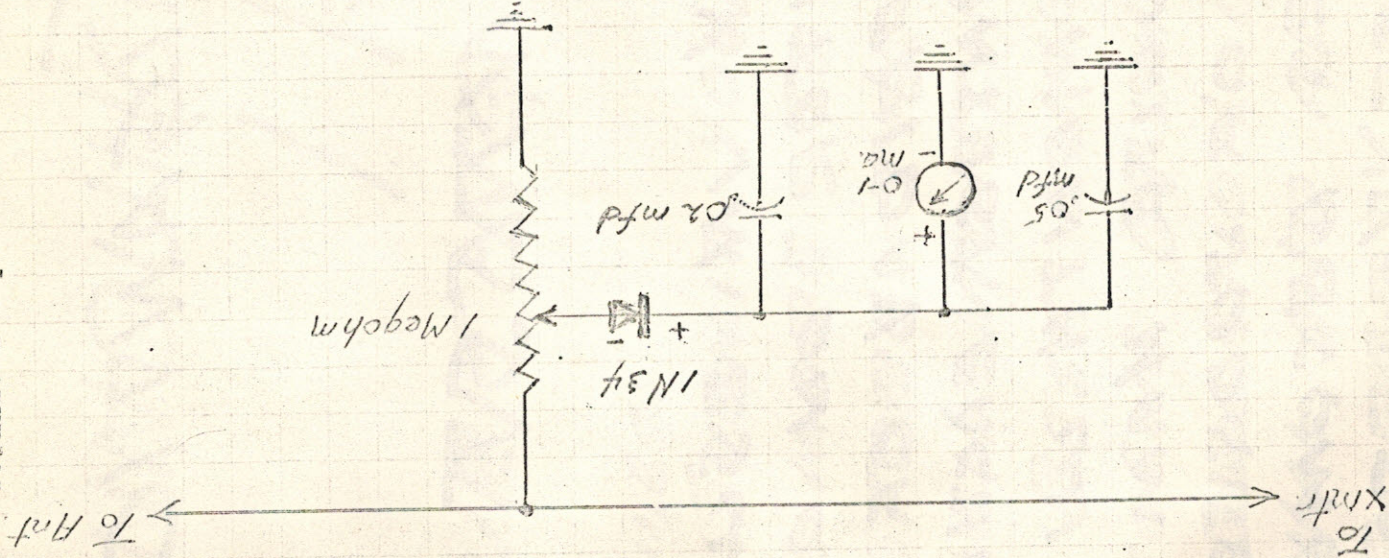
Rules:

SUBMIT YOUR ENTRY IN 25 WORDS OR MORE TO THE EDITOR ON OR BEFORE THE FIRST FRIDAY OF EACH MONTH. (NEW CONTEST EACH MONTH)

BEST ENTRY EACH MONTH WILL RECEIVE BY-LINE IN, ERUDITE HAM PUBLICATION. DECISION OF JUDGES IS FINAL, AND ALL ENTRIES BECOME PROPERTY OF JUDGES. YOU TOO, MAY BECOME A FAMOUS AUTHOR

This month's Technical Topic Submitted by Ray Forbes W9HNS.
 Ray sent along a couple more which will appear in later issues.

Relative Power Output Meter



DX Column

By DX Editor; Harry Butler W9OVF

Five band DXCC- Sponsored by ARRL and starting soon- see QST. This new award should stir up a lot of activity. The idea apparently is to work 100 countries on each band, 80 thru 10 meters.

Local hams represented again in last CQ-DX competition out-of- states; Les Bannon, W9ZTD, and Dave Zeph, W9ZRX were in Dutch St. Marten signing the rare prefix RJMM (Oct., 26 and 27).

The old DX champion, Gus Browning, W4BPD verifies the travel bug is biting him again. It is possible he may be on the trail again soon, operating from some more rare countries. Gus publishes a weekly DX magazine, which is a very desirable aid for the serious DXer.

Was talking to Ed Healy, W9FJR, the other day. He wondered if he had a new country when he worked a station with an OM prefix. Sorry about that, Ed. Guess it was just another Czechoslovakian OK in disguise.

Apparently the OKs have temporary permission to use that prefix. Anyway it's better than working a bootlegger. As you note the Mexicans (XEs) are using the 4A prefix during the Olympic games held in Mexico City

de W9OVF

Text of radiogram from W7DQS;

Jerry Lucas W9BS;

Congratulations on receiving radio club award which you certainly deserved but why did you keep it secret from your many Arizona admirers?

73,

Marsh

I wasn't trying to keep it secret, Marsh, a very modest story appeared in Nov. issue page 3. Complete story written by an unbiased reporter appears in this issue.

The 1968 Award of Appreciation

One of the big events in 1968 and a first in IRC history passed without the publicity it deserved. Even though it is now about 4mo. old here it is. Due to several foul-ups the real meat of the Award dinner never reached the telling stage. First, thru a misunderstanding the letter of nomination didn't show up at the dinner and couldn't be read. Second because Ye Ed. was a little on the timid side he was reluctant to publish it in the Amachever. So here it is for all to see.....

To the IRC:

This is a letter of nomination for the IRC Award of Appreciation - - 1968.

This nominee is selected for consideration because of his outstanding devotion to IRC and to Amateur Radio in general. Forty three years ago the spark of interest in radio came alive for him and it is still burning. The enthusiasm and willing attitude of this man has benifited in many ways over many years. His attendance record is far above the average and his level headed suggestions at Directors meetings have been valuable in our progress. As any club worker knows, program material is always a problem and his efforts in rounding up speakers - or even presenting programs personally has saved many meetings from being just a bull session. I've never known him to refuse any assignment in the Club, and this is another indication of his dedication. He is well known in Amateur circles and always lends a touch of dignity to the activities. In the area of Ham Radio in general he has always been ready to give the Novice Exam. He's forgotten how many but thinks it is near 30. His well stocked shack is a real experience to visit and you're always welcome. He's getting to the age now where he likes to talk about the good ol' days. He can because he was there - with a 201! (still got it) Shelves loaded with test gear is available when someone lugs in a rig or receiver that is ailing.

Here is a summary of the offices this nominee has been elected to by our Club members.

Join IRC in 1929	1931
Elected Secretary	1934
" Chief Op.	1949
" Secretary	1950
" Secretary	1951
" Director	1961
" Vice Pres.	1962
" Vice Pres.	1963
" Director	1964
" President	1966
" President	1967
" VP & Pres.	1967

Editor of Amachever

Editor of Amachever

Holds Extra Class License

Has 25 wpm certificate from ARRL

Has been a long and loyal

supporter of ARRL

Has an exceptional knowledge

of electronics

Has kept up with the State of the Art

Builds almost all of his gear

Don't you agree, the Indianapolis Radio Club

is fortunate to list as one of it's members. ol'

W9AHL

then W9APJ

and now W9BS

JERRY LUCAS

The 1968 placque is now on the wall in Jerry's shack and judging from the applause after the presentation we're all glad to see you win the first one. Wonder who is going to win the next one.

How many of you saw the letter to Herman Hoglebogle in the Dec., 19, 1968 edition of the Indianapolis News from Hank Peterson W9ZRK? Hank was inquiring about the inspection date for cars bearing ham plates.

Herman said that although ham plates did not have a digit at the end, that the 9 in the call was to be used to determine inspection date- June 30th. Suppose they will have things straightened out by then?

Nobe Watson would like to contact someone with a BC-342 for sale. If you know of one for sale contact W9WE.

For Sale;

Drake 2B rcvr and Hallicrafters HT 37. Asking \$300.00. Call John Watson, WA9TEG, 255-7195.

Answers to last month' Noodle Nudgers

- 1-D
- 2-C
- 3-A
- 4-B

From the January 13, 1969 issue of the Indpls News- Onnthis date in 1902 the Electro Importing Company of New York advertised a radio set for the first time. "Will work up to one mile." Cost \$7.50. I'll bet it was a solid state job.

This month's Noodle Nudger; Which is the highest?

- 1- The E layer.
- 2- The F1 layer.
- 3- The F2 layer.
- 4 The Van Allen belt.

**JOS. G.
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